

MATERIAL SAFETY DATA SHEET

Radiator Specialty Company

1900 WILKINSON BLVD. CHARLOTTE, NC 28208 (704) 377-6555

POISON INFORMATION & EMERGENCY: 303-623-5716

MATERIAL SAFETY DATA SHEET

May be used to comply with OSHA's Hazard Communication Standard 29 CFR 1910.1200. Standard must be consulted for specific requirements.

US DEPARTMENT OF LABOR

Occupational Safety and Health Administration.
(Non-Mandatory Form) Form Approved OMB No. 1218-0072

SECTION I GENERAL INFORMATION

PRODUCT NAME HYDRO SEAL II HEAVY DUTY COLD PARTS CLEANER
PART NUMBER HS-3, -3K, -5K, -5LB, -7, -8

NOTE: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

SECTION II HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

COMPONENT	WT%	C.A.S. NO.	TLV (ACGIH--X----OSHA-----)
Aromatic Petroleum Distillate*	40-50	64742-94-5	100 ppm
2-Butoxyethanol*	21-25	111-76-2	25 ppm
Tall Oil Fatty Acid	4-8	61790-12-3	10 mg/m ³
Triethanolamine	1-4	102-71-6	5 mg/m ³
2 Pyrrolidone,1 Methyl*	1-4	872-50-4	100 ppm

*THIS CHEMICAL IS SUBJECT TO REPORTING REQUIREMENTS OF SECTION 313, SARA TITLE III

Warning: This product contains chemicals that are known by the state of California to cause cancer, birth defects, and other reproductive harm.

Comments:

Components not identified are non-hazardous according to 29 CFR 1910.1200

SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS

Specific Gravity (H₂O=1)	.93	pH	8.0
Solubility in Water	Soluble	Solubility in Solvent	Petroleum
Flash Point (Method) - F°	160 (TCC)	% Volatiles By Wt.	91
Melting Point - F°	N/A	Boiling Point - F°	280
Vapor Pressure (mmHg)	7	Vapor Density (Air=1)	Not known
Evaporation Rate (Butyl Acetate=1)	.1		
Appearance and Odor	Clear, dark red brown liquid, strong aromatic odor		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA:

Water Fog X **Foam** **CO₂** X **Dry Chemical**

SPECIAL FIRE FIGHTING PROCEDURES. Wear self-contained, positive pressure breathing apparatus and protective clothes.

UNUSUAL FIRE AND EXPLOSION HAZARDS None known.

HS

SECTION V REACTIVITY DATA

Stable	X	Unstable	Corrosive	NO	Hazardous Polymerization?	Yes	No	X
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Incompatibilities Avoid alkalis and strong oxidizing agents.**Hazardous Decomposition or Byproducts** Burning may produce carbon monoxide and/or carbon dioxide, various hydrocarbons.**SECTION VI HEALTH HAZARD INFORMATION****Recommended TLV of Product** 25 ppm**EYE CONTACT** Severe irritation, repeated contact can lead to permanent damage.**SKIN CONTACT** Repeated exposure can lead to dermatitis, redness and burning of skin**INHALATION** Can cause irritation to mucous membranes and lungs, dizziness, narcosis.**INGESTION** Irritation to mouth, throat and gastrointestinal track. MAY BE FATAL IF SWALLOWED!**OTHER** Treat this and all chemicals with caution.**SECTION VII EMERGENCY AND FIRST AID PROCEDURES****EYE CONTACT** Lift eyelids and flush thoroughly with water for at least 15 minutes. Seek medical attention immediately.**SKIN CONTACT** Wash thoroughly with soap and water. Remove contaminated clothing and shoes. If irritation persists, seek medical attention.**INHALATION** Move to fresh air, if effects persist, consult a physician.**INGESTION** HARMFUL OR FATAL IF SWALLOWED! DO NOT INDUCE VOMITING! Seek medical attention immediately!**SECTION VIII SPECIAL PROTECTION INFORMATION**

	CONSUMER	BULK HANDLING (Prolonged Exposure)
RESPIRATORY PROTECTION	Not needed with good ventilation.	If TLV is exceeded, wear respirator with organic vapor cartridge.
VENTILATION	Use with adequate ventilation.	General ventilation.
EYE PROTECTION	Safety goggles or glasses	Full face shield and safety goggles.
PROTECTIVE CLOTHING	Not needed.	Solvent resistant.

SECTION IX PRECAUTIONS FOR SAFE HANDLING AND USE**SPILL OR LEAK PROCEDURE** Confine spill, observe health hazards above, remove ignition sources, soak up with rags or clay and transfer to waste drum.**WASTE DISPOSAL METHOD** *Dispose of in accordance with all applicable government laws and regulations.***STORAGE AND HANDLING PRECAUTIONS** Store in a cool place away from alkalis and oxidizing agents.**OTHER PRECAUTIONS** WEARING CONTACT LENSES WHILE USING PRODUCT IS NOT ADVISED. KEEP AWAY FROM CHILDREN AND ANIMALS.

HAZARD INFORMATION LABEL DATA

HAZARD CODE FLAMMABILITY REACTIVITY
4- Extreme
3- High
2- Moderate
1- Slight
0- Negligible

HEALTH



SPECIAL

Supersedes JULY 2001

OSHA Revised OCTOBER 2001

Title R. Geer -CHEMIST

While Radiator Specialty Company believes this data is accurate as of the revision date, we make no warranty with respect to the data and we expressly disclaim all liability for reliance thereon. The data is offered solely for information, investigation, and verification.